

TECHNICAL PRODUCT INFORMATION

Product:	Diffused thermic Anti-Drip Anti-Dust film
Catalog Number	E1887
Product description:	Film Polyethylene, in rolls, 3 layer co-extruded, UV stabilized diffused greenhouse cover. The film contains diffusers to allow the plants to receive more even light during the day, Anti-Drip additives to prevent dripping on the plants, Thermic (IR) to reduce heat loss at night and Anti-Dust ingredients.
Durability:	3 years at 160-180 KL(Anti-fog 18 months),
Thickness:	180-250 μ
Width:	4-13.0 m
Length:	According to customer order

Product properties

Property	Test Method	Units	Value
Tensile Strength at break[MD]	ASTM D-882	MPa.	25 \pm 12%
Tensile Strength at break[TD]	ASTM D-882	MPa.	25 \pm 12%
Elongation at break [MD]	ASTM D-882	%	500 min
Elongation at break [TD]	ASTM D-882	%	500 min
Tear resistance[MD]	ASTM D-1922	Kg./mm	9 min
Tear resistance[TD]	ASTM D-1922	Kg./mm	12.0 min
Falling Dart Impact (200 microns)	ASTM D-1709	gr.	1000 min
Total light transmission	EN 13206	%	85 min
Light diffusion	EN 13206	%	60-70
Thermicity	EN 13206	%	85 min
UV blocking at 250-400 nm	EN 13206	%	85 \pm 10%
Thickness average tolerance	EN 13206	%	\pm 5% on nominal

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Use and limitation:

- **Exposure to chemicals:** exposure of greenhouse films to severe chemical conditions has an adverse effect on the lifetime of the film. Avoid excessive use of agrochemicals such as pesticides, herbicides, fungicides and fertilizers. Take measures to prevent direct contact of chemicals to the film. Ensure that metal structures are galvanized and are free from corrosion. When wooden structure parts are used, avoid contact of the film with resin, oil, petroleum or volatile preservatives. Prevent contact of the film with PVC accessories. Chemicals containing halogens, sulfur, copper, iron, are known to accelerate the degradation of greenhouse films.

Specifically, if the following elements are found at levels higher than specified, the films are excluded from this warranty:

<u>First Year</u>	: Sulfur: 800ppm, Chlorine: 100ppm
<u>Second year</u>	: Sulfur: 1500ppm, Chlorine: 150ppm.
<u>Third year</u>	: Sulfur: 2000ppm, Chlorine: 200ppm
Iron: 50 ppm.	

- **Overheating:** the film has an adverse effect on its lifetime. Hot air should be directed away from the film.
- **Disinfection chemical use:** when chemicals are used to disinfect the soil, the treated soil must be covered with a film for a minimum of three weeks. After the film is removed, the greenhouse should be ventilated.

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